GREER COMPANY

Crane Systems

Extension Reel
Cable Guide Hardware Kit

Greer Number K056005

Purpose

The Extension Reel Cable Guide Hardware Kit is used to control the reel-off cable along the telescoping boom and the signal cable routed between the extension reel and the computer or the display console.

Where Used

The hardware kit contains three pigtail-type cable guides with weld blocks for installation between the extension reel and the boom head, one boom head anchor with weld block, four weld blocks with cable clamps (P clips) securing the cable path and guiding the cable between the extension reel and the computer or display (whichever is appropriate to the System in use), and four 3M™ VHB™ Tape pads (used as an option when welding is not permitted) to secure the signal cable pathway down and around the boom pivot to the computer. Other associated parts as described in the parts list below complete the package. This kit is not supplied with the extension reel. The 3M™ VHB™ pads are included as an option **only** on the mounting blocks installed between the extension reel and the computer (or display).

Parts List

Part Number

		Quantity
P050880	Cable guide pigtail-type eyebolt 3/8-16 x 5" SS	2
P050881	Cable guide pigtail-type eyebolt 3/8-16 x 7.5" SS	1
P050618	Boom head anchor 3/8-16 x 4" or 5" STD EYE BOLT ZINC	1
P050602	Nut hex 3/8-16 jam (lock) nut	4
P065565	Mounting block 3/8-16"	4
P065017	Cable clamp (P clip)	3
P050618	Mounting block 1/4-20 for cable clamps	4
P050239	Screw RH ¼-20 X ½	4
P065415	Pad 3M™ VHB™ for P clip blocks when welding is prohibited	4

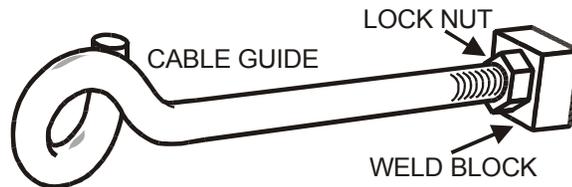# GREER COMPANY
Crane Systems

Reel-Off Cable Guides to Boom Head & Cable Anchor

The correct placement and position of the cable guides is essential to the performance of the extension reel and the reel-off cable.
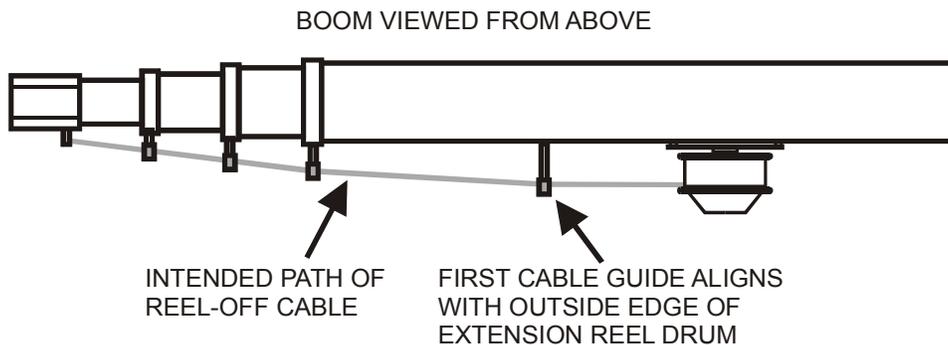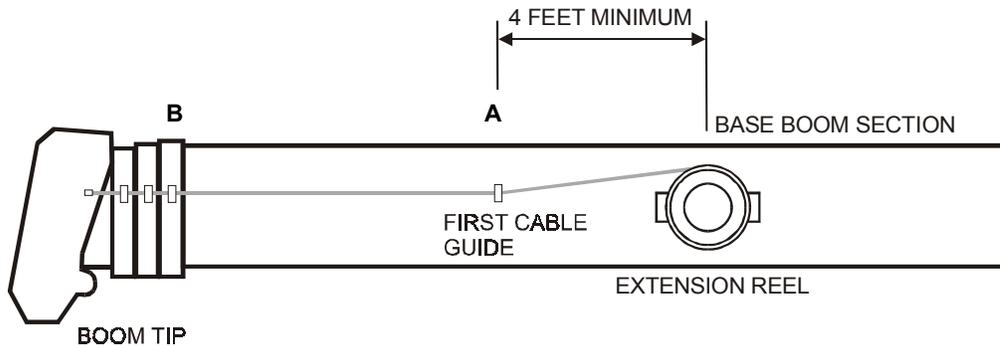
Read and understand all requirements for positioning of the first and intermediate guides, and the anchor before positioning and welding the weld blocks.

First Cable Guide

The first cable guide (7 ½" long to the center of its eye) is intended to control the drifting of the reel-off cable onto the extension reel during boom retraction.
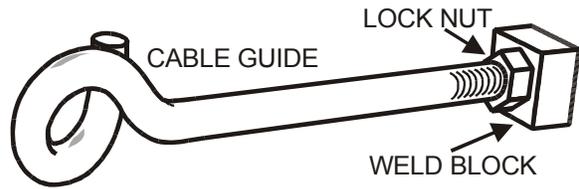

- The first cable guide can be placed anywhere between 4 ft (A) and the end of the base section of the boom (B) as shown below to provide the best control during boom retraction.
- The cable guide must be fitted so that it aligns with the outer edge of the extension reel to ensure that the cable does not double-stack when operating during boom retraction.
- If it is only feasible to place the first cable guide at the base boom tip, the correct guide length must still be used to ensure proper layering of the reel-off cable onto the extension reel.
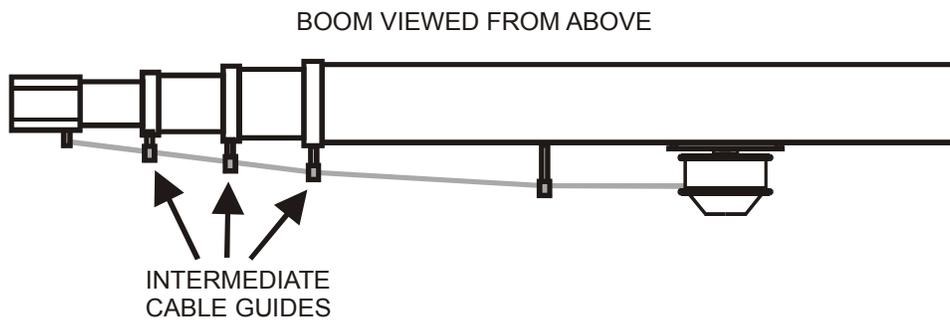

BOOM VIEWED FROM ABOVE

Intermediate Cable Guides

A cable guide (5" to center of eye) must be placed at the tip of each of the intermediate extending boom sections.
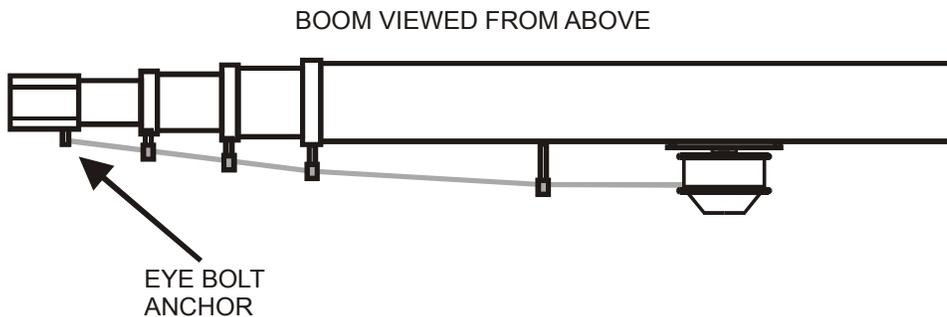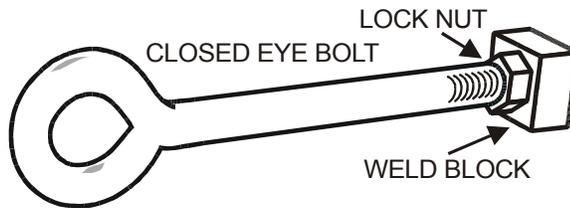
LOCK NUT

CABLE GUIDE

WELD BLOCK

- If the first cable guide is positioned along the side of the boom, an intermediate guide must also be placed at the tip of the base boom section, as shown.

BOOM VIEWED FROM ABOVE

INTERMEDIATE
CABLE GUIDES

Boom Tip Anchor

The boom tip must be fitted with the closed-eye bolt for use as an anchor point for the reel-off cable.

LOCK NUT

CLOSED EYE BOLT

WELD BLOCK

BOOM VIEWED FROM ABOVE

EYE BOLT
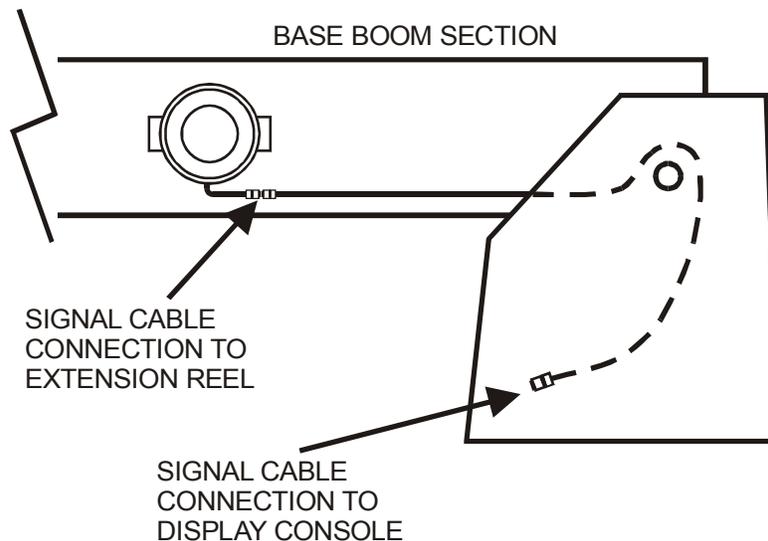ANCHOR

GREER COMPANY
Crane Systems _____

Pre-Tension & Reel-Off Cable

Before the Reel-Off cable can be connected to the boom head, the extension reel spring must be pre-tensioned. Pre-tension ensures that the Reel-Off cable will remain taut at all boom extensions.

- A second person is required to complete the pre-tension and Reel-Off cable installation.

- Ensure that the boom is fully retracted before continuing.

1. Slowly rotate the Extension Reel clockwise until a "click" is heard, indicating that the spring inside the reel is engaged.

2. Turn the Extension Reel counterclockwise for 5 complete rotations.

    - A temporary marker placed on the Extension Reel can assist in the rotation count.

    - Do not exceed 5 pre-tension rotations, since the internal spring may be damaged at full boom extension.

3. Hold the extension reel in its pre-tensioned state and cut the cable ties securing the Reel-Off cable connector and thimble to the extension reel.

4. Continue holding the extension reel and manually unwind as much Reel-Off cable as required to reach the end of the boom.

5. Thread the Reel-Off cable through each of the cable guides and attach the thimble to the tie-off post.

6. Carefully release the cable reel to take up the reel-off cable slack.

The Extension Reel Signal Cable

The Extension Reel Signal Cable travels between the Extension Reel and the computer or the Display Console. Anti Two-Block, Boom Angle, and Boom Extension signals are carried to the Display Console by this cable. The mounting blocks may be welded to this pathway in the standard manner or, if welding is not permitted, may be affixed with 3M ™ VHB™ Tape following the instructions below.

BASE BOOM SECTION

SIGNAL CABLE
CONNECTION TO
EXTENSION REEL

SIGNAL CABLE
CONNECTION TO
DISPLAY CONSOLE

1. Carefully route the signal cable along a path around the boom pivot to the display or to the computer. (Refer to the Extension Reel instructions supplied with your System for the appropriate connection.)

2. Ensure that there is enough cable to allow full boom movement without damage to the cable.

3. Use one of following two mounting options:
   - **Welding**

     Weld the four mounting blocks along the selected pathway to the computer/display. Skip to Step 4.

   - **3M™ VHB™ Pads**

     Do not bond VHB™ Pads 4952 or 4932 to abraded surfaces. They bond best to smooth surfaces.

     a. Thoroughly cleanse the mounting area. Clean heavily oiled or greasy surfaces with a degreasing solvent. Change rags or towels frequently. A clean surface is essential.

    b. On the final cleaning, thoroughly wipe the clean surface with Isopropyl alcohol (70%). Do not substitute any other cleaners.

    c. Allow the surface to dry.

    d. Remove the film from one side of each of the four adhesive pads and seat the 3M ™ VHB™ Adhesive Pads on the cleaned mounting path to the computer or display.

    e. Immediately remove the film from the other side of the pad and press a mounting block (1/4-20 X ½) to each pad.

4. When secure, using the RH ¼-20 ½ screws, attach a cable clamp (P clip) to each mounting block.

5. Attach the cable to the "P" clips.

6. Route the cable to the computer or into the cab (connect to the display power cable connector carrying the "red," black," and "orange" wires) as appropriate to the system in use.